## SEQUENCE LISTING

5	(1) GENE	RAL INFORMATION:
J	(i)	APPLICANTS: Wallner, Barbara P. Cooper, Kevin D.
10	. (ii)	TITLE OF INVENTION: Method of Prophylaxis or Treatment of Antigen Presenting Cell Driven Skin Conditions Using Inhibitors of the CD2/LFA-3 Interaction
	(iii)	NUMBER OF SEQUENCES: 8
15	(iv)	CORRESPONDENCE ADDRESS:  (A) ADDRESSEE: LAHIVE & COCKFIELD  (B) STREET: 60 State Street, Suite 510  (C) CITY: Boston
20		(D) STATE: Massachusetts (E) COUNTRY: USA (F) ZIP: 02109-1875
25	(v)	COMPUTER READABLE FORM:  (A) MEDIUM TYPE: Floppy disk  (B) COMPUTER: IBM PC compatible  (C) OPERATING SYSTEM: PC-DOS/MS-DOS  (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
30	(vi)	CURRENT APPLICATION DATA:  (A) APPLICATION NUMBER:  (B) FILING DATE:
35-		PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: PCT/US92/08755  (B) FILING DATE: 06-OCT-1992
40		PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 07/862,022  (B) FILING DATE: 12-APR-1992
	(vii)	PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 07/770,969  (B) FILING DATE: 07-OCT-1991
45	(viii)	ATTORNEY/AGENT INFORMATION:  (A) NAME: Myers, Louis (PLM)  (B) REGISTRATION NUMBER: 35,965  (C) REFERENCE/DOCKET NUMBER: BGP-111CP
50	(ix)	TELECOMMUNICATION INFORMATION:  (A) TELEPHONE: (617)227-7400  (B) TELEFAX: (617)227-5941
55	(2) INFOR	MATION FOR SEQ ID NO:1:
	(i) :	SEQUENCE CHARACTERISTICS: (A) LENGTH: 753 base pairs

(B) TYPE: nucleic acid

					STRAI IOPOI				ngle		,							
5		(ii	i) Mo	OLECT	ULE :	PYPE:	: cDi	IA.										
10		(i)		(A) 1	RE: NAME, LOCAT							<del>-</del>						
10		(i)		(A) 1	RE: NAME/ LOCAI				tide	<b>:</b>								
15		(ix		(A)	RE: NAME/ LOCAI					!								
20		(ix	(	A) N B) L	IAME/ OCAT	'ION:	1	750			"Hu	man	tran	smem	bran	e LFA-	3 "	,
25	- =	(ix	(	A) N B) L	E: IAME/ OCAT THER	'ION:	646	_			"Tr	ansm	embra	ane (	doma:	in"		
30		(xi	) SE	QUEN	CE D	ESCR	IPTI	ON:	SEQ	ID N	0:1:							
35 <sup>-</sup>					AGC Ser			Gly		Ala							4	8
	GTC Val				CAC His												9	6
40					GTG Val												14	: <b>4</b>
45					GAG Glu 25												19	2
50					TCT Ser												24	:0
55					ACT Thr												28	8
					GAT Asp												33	6

		Met									TCT Ser 95							384
5						Thr					GAA Glu							432
10											ATA Ile						-	480
15											ACC Thr							528
20											TGT Cys						9*	576
											ACA Thr 175							624
25											ATA Ile							672
30			Thr								AAT Asn							720
35	GAC Asp	Arg	215~	Pro	Asp	Arg	Thr				TGA							753
40	(2)	INFO	RMAT	ION EQUE (A) (B)	FOR NCE LEN TYP	SEQ	ACTE 250 mino	RIST ami aci	ICS: no a		3							
45			i) M							! ID	NO:2	:						
50	Met -28	Val .		Gly : -25	Ser .	Asp i	Ala		Arg -20	Ala	Leu	Gly	Val	Leu -15	Ser	Val		
	Val		Leu 1 -10	Leu I	His (	Cys 1	Phe (	31y -5	Phe	Ile	Ser	Cys	Phe 1	Ser	Gln	Gln		
55	Ile '	Tyr (	Gly V	Val V	Val '	Tyr ( 10	Bly i	Asn '	Val	Thr	Phe 15	His	Val	Pro	Ser	Asn 20		
	Val 1	Pro 1	Leu I	ys (	3lu 7 25	Val I	Leu !	[rp ]	Lys	Lys 30	Gln	Lys	Asp	Lys	Val 35	Ala		

	Glu	Leu	Glu	Asn 40	Ser	Glu	Phe	Arg	Ala 45	Phe	Ser	Ser	Phe	Lys 50	Asn	Arg
5	Val	Tyr	Leu 55	Asp	Thr	Val	Ser	Gly 60	Ser	Leu	Thr	Ile	Tyr 65	Asn	Leu	Thr
10	Ser	Ser 70	Asp	Glu	Asp	Glu	Tyr 75	Glu	Met	Glu	Ser	Pro 80	Asn	Ile	Thr	Asp
10	Thr 85	Met	Lys	Phe	Phe	Leu 90	Tyr	Val	Leu	Glu	Ser 95	Leu	Pro	Ser	Pro	Thr 100
15	Leu	Thr	Cys	Ala	Leu 105	Thr	Asn	Gly	Ser	Ile 110	Glu	Val	Gln	Cys	Met 115	Ile
	Pro	Glu	His	Tyr 120	.Asn	Ser	His	Arg	Gly 125	Leu	Ile	Met	Tyr	Ser 130	Trp	Asp
20	Cys	Pro	Met 135	Glu	Gln	Cys	Lys	Arg 140	Asn	Ser	Thr	Ser	Ile 145	Tyr	Phe	Lys
25	Met	Glu 150	Asn	Asp	Leu	Pro	Gln 155	Lys	Ile	Gln	Cys	Thr 160	Leu	Ser	Asn	Pro
	Leu 165	Phe	Asn	Thr	Thr	Ser 170	Ser	Ile	Ile	Leu	Thr 175	Thr	Cys	Ile	Pro	Ser 180
30	Ser	Gly	His	Ser	Arg 185	His	Arg	Tyr	Ala	Leu 190	Ile	Pro	Ile	Pro	Leu 195	Ala
	Val	Ile	Thr	Thr 200	Cys	Ile	Val	Leu	Tyr 205	Met	Asn	Gly	Ile	Leu 210	Lys	Cys
35	Asp	Arg	Lys 215	Pro	Asp	Arg	Thr	Asn 220	Ser	Asn						
40	(2)		(B		E CH NGTH PE:	ARAC : 72	TERI 3 ba eic	STIC se p	S: airs	3						
45		(ii)	_	) TO	POLO	GY:	line	ar	,							
			FEA				CDIT									
50		(4,	(A	) NA ) LO	ME/K			20								
55		(ix)		TURE ) NA ) LO	ME/K				ide							
		(ix)		TURE ) NAI ) LO	ME/K				ide							

. 5	(ix	(	EATUR (A) N (B) I (D) C	AME/	'ION:	1	720			"Hu	man ]	PI-1:	inked	i LF/	A-3"	
10	(ix	(	EATUR (A) N (B) I (D) C	AME/ OCAT THER	'ION:	568 ORMA	72 TION	0		"Si	gnal	seq	uence	e fo	r	
15	(xi	) SE	QUEN	CE D	ESCR	IPTI	ON:	SEQ	ID N	0:3:						
	Val		GGG Gly -25	Ser												48
20			CTG Leu													96
25	Tyr		GTT Val													144
30			AAA Lys													192
35			AAT Asn 40													240
			GAC Asp													288
40			GAA Glu		Glu		Glu									336
45			TTC Phe													384
50			GCA Ala													432
55			TAC Tyr 120													480
			GAG Glu													528

			u Ası					Lys		CAG Gln			Leu			CCA Pro		576
5		ı Ph					Ser			TTG Leu		Thr						624
10						His				CTT Leu 190	Ile					GCA Ala		672
15					Cys					ATG Met					Ala			720
	TAA	•																723
20	(2)	INF	ORMA	TION	FOR	SEQ	ID 1	NO:4	:								*	•
25				(B (D	) LE: ) TY: ) TO:	NGTH PE: a	: 240 amino GY: 3	0 am o ac line	ino id ar	: acid	5							
				MOLE SEOU						Q ID	NO · 4	1.						
30	Met -28									Ala			Val	Leu -15	Ser	Val		
35	Val	Cys	Leu -10	Leu	His	Cys	Phe	Gly -5	Phe	Ile	Ser	Cys	Phe 1	Ser	Gln	Gln		
	Ile 5	Tyr	Gly	Val	Val	Tyr 10	Gly	Asn	Val	Thr	Phe 15	His	Val	Pro	Ser	Asn 20		
40	Val	Pro	Leu	Lys	Glu 25	Val	Leu	Trp	Lys	Lys 30	Gln	Lys	Asp	Lys	Val 35	Ala		
45	Glu	Leu	Glu	Asn 40	Ser	Glu	Phe	Arg	Ala 45	Phe	Ser	Ser	Phe	Lys 50	Asn	Arg		
	Val	Tyr	Leu 55	Asp	Thr	Val	Ser	Gly 60	Ser	Leu	Thr	Ile	Tyr 65	Asn	Leu	Thr		
50	Ser	Ser 70	Asp	Glu	Asp	Glu	Tyr 75	Glu	Met	Glu	Ser	Pro 80	Asn	Ile	Thr	Asp		
	Thr 85	Met	Lys	Phe	Phe	Leu 90	Tyr	Val	Leu	Glu	Ser 95	Leu	Pro	Ser	Pro	Thr 100		
55	Leu	Thr	Cys	Ala	Leu 105	Thr	Asn	Gly	Ser	Ile 110	Glu	Val	Gln	Cys	Met 115	Ile		
	Pro	Glu		Tyr	Asn	Ser	His	Arg	Gly	Leu	Ile	Met	Tyr	Ser	Trp	Asp		

	Cys Pro Met Glu Gln Cys Lys Arg Asn Ser Thr Ser Ile Tyr Phe Lys 135 140 145	
5	Met Glu Asn Asp Leu Pro Gln Lys Ile Gln Cys Thr Leu Ser Asn Pro 150 155 160	
10	Leu Phe Asn Thr Thr Ser Ser Ile Ile Leu Thr Thr Cys Ile Pro Ser 165 170 175 180	
10	Ser Gly His Ser Arg His Arg Tyr Ala Leu Ile Pro Ile Pro Leu Ala 185 190 195	
15	Val Ile Thr Thr Cys Ile Val Leu Tyr Met Asn Gly Met Tyr Ala Phe 200 205 210	
	(2) INFORMATION FOR SEQ ID NO:5:	
20	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 1056 base pairs  (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	
	(ix) FEATURE:	
30	(A) NAME/KEY: CDS (B) LOCATION: 11053	
35	<pre>(ix) FEATURE:     (A) NAME/KEY: sig_peptide     (B) LOCATION: 172</pre>	
	(ix) FEATURE:  (A) NAME/KEY: mat_peptide  (B) LOCATION: 731053	
40	(ix) FEATURE:  (A) NAME/KEY: misc_feature	
45	(B) LOCATION: 11053 (D) OTHER INFORMATION: /note= "Human CD2"	
	<pre>(ix) FEATURE:     (A) NAME/KEY: misc_feature     (B) LOCATION: 628702</pre>	
50	(D) OTHER INFORMATION: /note= "Transmembrane domain"	
55	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  ATG AGC TTT CCA TGT AAA TTT GTA GCC AGC TTC CTT CTG ATT TTC AAT	48
, ,	Met Ser Phe Pro Cys Lys Phe Val Ala Ser Phe Leu Leu Ile Phe Asn -24 -20 -15 -10	
	GTT TCT TCC AAA GGT GCA GTC TCC AAA GAG ATT ACG AAT GCC TTG GAA Val Ser Ser Lys Gly Ala Val Ser Lys Glu Ile Thr Asn Ala Leu Glu	96

1 ACC TGG GGT GCC TTG GGT CAG GAC ATC AAC TTG GAC ATT CCT AGT TTT 144 Thr Trp Gly Ala Leu Gly Gln Asp Ile Asn Leu Asp Ile Pro Ser Phe 5 15 CAA ATG AGT GAT ATT GAC GAT ATA AAA TGG GAA AAA ACT TCA GAC 192 Gln Met Ser Asp Asp Ile Asp Asp Ile Lys Trp Glu Lys Thr Ser Asp 10 AAG AAA AAG ATT GCA CAA TTC AGA AAA GAG AAA GAG ACT TTC AAG GAA 240 Lys Lys Lys Ile Ala Gln Phe Arg Lys Glu Lys Glu Thr Phe Lys Glu AAA GAT ACA TAT AAG CTA TTT AAA AAT GGA ACT CTG AAA ATT AAG CAT 288 Lys Asp Thr Tyr Lys Leu Phe Lys Asn Gly Thr Leu Lys Ile Lys His 60 CTG AAG ACC GAT GAT CAG GAT ATC TAC AAG GTA TCA ATA TAT GAT ACA 336 20 Leu Lys Thr Asp Asp Gln Asp Ile Tyr Lys Val Ser Ile Tyr Asp Thr 75 AAA GGA AAA AAT GTG TTG GAA AAA ATA TTT GAT TTG AAG ATT CAA GAG 384 Lys Gly Lys Asn Val Leu Glu Lys Ile Phe Asp Leu Lys Ile Gln Glu 25 90 AGG GTC TCA AAA CCA AAG ATC TCC TGG ACT TGT ATC AAC ACA ACC CTG 432 Arg Val Ser Lys Pro Lys Ile Ser Trp Thr Cys Ile Asn Thr Thr Leu 105 110 30 ACC TGT GAG GTA ATG AAT GGA ACT GAC CCC GAA TTA AAC CTG TAT CAA 480 Thr Cys Glu Val Met Asn Gly Thr Asp Pro Glu Leu Asn Leu Tyr Gln 130 35 GAT GGG AAA CAT CTA AAA CTT TCT CAG AGG GTC ATC ACA CAC AAG TGG 528 Asp Gly Lys His Leu Lys Leu Ser Gln Arg Val Ile Thr His Lys Trp 140 --145 ACC ACC AGC CTG AGT GCA AAA TTC AAG TGC ACA GCA GGG AAC AAA GTC 576 Thr Thr Ser Leu Ser Ala Lys Phe Lys Cys Thr Ala Gly Asn Lys Val AGC AAG GAA TCC AGT GTC GAG CCT GTC AGC TGT CCA GAG AAA GGT CTG Ser Lys Glu Ser Ser Val Glu Pro Val Ser Cys Pro Glu Lys Gly Leu 45 GAC ATC TAT CTC ATC ATT GGC ATA TGT GGA GGA GGC AGC CTC TTG ATG 672 Asp Ile Tyr Leu Ile Ile Gly Ile Cys Gly Gly Gly Ser Leu Leu Met 190 50 GTC TTT GTG GCA CTG CTC GTT TTC TAT ATC ACC AAA AGG AAA AAA CAG 720 Val Phe Val Ala Leu Leu Val Phe Tyr Ile Thr Lys Arg Lys Lys Gln 205 210 AGG AGT CGG AGA AAT GAT GAG GAG CTG GAG ACA AGA GCC CAC AGA GTA 768 Arg Ser Arg Arg Asn Asp Glu Glu Leu Glu Thr Arg Ala His Arg Val 220 GCT ACT GAA GAA AGG GGC CGG AAG CCC CAC CAA ATT CCA GCT TCA ACC 816

	30	
	Ala Thr Glu Glu Arg Gly Arg Lys Pro His Gln Ile Pro Ala Ser Thr 235 240 245	
5	CCT CAG AAT CCA GCA ACT TCC CAA CAT CCT CCT CCA CCA CCT GGT CAT Pro Gln Asn Pro Ala Thr Ser Gln His Pro Pro Pro Pro Pro Gly His 250 255 260	864
10	CGT TCC CAG GCA CCT AGT CAT CGT CCC CCG CCT CCT GGA CAC CGT GTT Arg Ser Gln Ala Pro Ser His Arg Pro Pro Pro Pro Gly His Arg Val 265 270 275 280	912
15	CAG CAC CAG CCT CAG AAG AGG CCT CCT GCT CCG TCG GGC ACA CAA GTT Gln His Gln Pro Gln Lys Arg Pro Pro Ala Pro Ser Gly Thr Gln Val 285 290 295	960
13	CAC CAG CAG AAA GGC CCG CCC CTC CCC AGA CCT CGA GTT CAG CCA AAA His Gln Gln Lys Gly Pro Pro Leu Pro Arg Pro Arg Val Gln Pro Lys 300 305 310	1008
20	CCT CCC CAT GGG GCA GCA GAA AAC TCA TTG TCC CCT TCC TCT AAT Pro Pro His Gly Ala Ala Glu Asn Ser Leu Ser Pro Ser Ser Asn 315 320 325	1053
25	TAA	1056
30	(2) INFORMATION FOR SEQ ID NO:6:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 351 amino acids  (B) TYPE: amino acid  (D) TOPOLOGY: linear	
35	(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
40	Met Ser Phe Pro Cys Lys Phe Val Ala Ser Phe Leu Leu Ile Phe Asn -24 -20 -15 -10	
	Val Ser Ser Lys Gly Ala Val Ser Lys Glu Ile Thr Asn Ala Leu Glu -5 1 5	
45	Thr Trp Gly Ala Leu Gly Gln Asp Ile Asn Leu Asp Ile Pro Ser Phe  10 20	
50	Gln Met Ser Asp Asp Ile Asp Asp Ile Lys Trp Glu Lys Thr Ser Asp 25 30 35 40	
30	Lys Lys Lys Ile Ala Gln Phe Arg Lys Glu Lys Glu Thr Phe Lys Glu 45 50 55	
55	Lys Asp Thr Tyr Lys Leu Phe Lys Asn Gly Thr Leu Lys Ile Lys His 60 65 70	
	Leu Lys Thr Asp Asp Gln Asp Ile Tyr Lys Val Ser Ile Tyr Asp Thr 75 80 85	
	Lys Gly Lys Asn Val Leu Glu Lys Ile Phe Asp Leu Lys Ile Gln Glu	

90 95 100 Arg Val Ser Lys Pro Lys Ile Ser Trp Thr Cys Ile Asn Thr Thr Leu 105 110 115 5 Thr Cys Glu Val Met Asn Gly Thr Asp Pro Glu Leu Asn Leu Tyr Gln 130 Asp Gly Lys His Leu Lys Leu Ser Gln Arg Val Ile Thr His Lys Trp 10 Thr Thr Ser Leu Ser Ala Lys Phe Lys Cys Thr Ala Gly Asn Lys Val 155 160 15 Ser Lys Glu Ser Ser Val Glu Pro Val Ser Cys Pro Glu Lys Gly Leu Asp Ile Tyr Leu Ile Ile Gly Ile Cys Gly Gly Ser Leu Leu Met 190 20 Val Phe Val Ala Leu Leu Val Phe Tyr Ile Thr Lys Arg Lys Lys Gln Arg Ser Arg Arg Asn Asp Glu Glu Leu Glu Thr Arg Ala His Arg Val 25 220 Ala Thr Glu Glu Arg Gly Arg Lys Pro His Gln Ile Pro Ala Ser Thr 240 30 Pro Gln Asn Pro Ala Thr Ser Gln His Pro Pro Pro Pro Pro Gly His Arg Ser Gln Ala Pro Ser His Arg Pro Pro Pro Pro Gly His Arg Val 270 Gln His Gln Pro Gln Lys Arg Pro Pro Ala Pro Ser Gly Thr Gln Val 290 His Gln Gln Lys Gly Pro Pro Leu Pro Arg Pro Arg Val Gln Pro Lys 40 Pro Pro His Gly Ala Ala Glu Asn Ser Leu Ser Pro Ser Ser Asn 320 45 (2) INFORMATION FOR SEQ ID NO:7: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1050 base pairs (B) TYPE: nucleic acid 50 (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

55
(ix) FEATURE:

(A) NAME/KEY: CDS

(B) LOCATION: 1..1041

		(ix	(		AME/	KEY: ION:			tide									
5		(ix	(		AME/	KEY: ION:												
10	•	(ix	· (	B) L	AME/ OCAT	KEY: ION: INF	85.	.104	1		"LF/	A3TII	ò "					
15		(ix	(	B) L	AME/ OCAT	KEY: ION: INF	360	36:	1		"LFI	A-3/1	[gG 1	Eusio	on po	oint"		
20		(xi)	) SE	QUEN	CE D	ESCR:	IPTI	ON: S	SEQ :	ID NO	0:7:						,	
25						GAC Asp								_			,	48
						TGC Cys												96
30						TAT Tyr 10											1	44
35						GTC Val											1	92
40						GAA Glu											2	40
45						GTG Val											2	88
						GAG Glu											3	36
50						CTT Leu 90											3	84
55						CTC Leu											4	32
						ACC Thr							-				4	80

55

120 125 130 TGC GTG GTG GAC GTG AGC CAC GAA GAC CCT GAG GTC AAG TTC AAC 528 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn 135 140 TGG TAC GTG GAC GGC GTG GAG GTG CAT AAT GCC AAG ACA AAG CCG CGG 576 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg 10 GAG GAG CAG TAC AAC AGC ACG TAC CGG GTG GTC AGC GTC CTC ACC GTC 624 Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val 165 170 CTG CAC CAG GAC TGG CTG AAT GGC AAG GAG TAC AAG TGC AAG GTC TCC 672 Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser 185 190 AAC AAA GCC CTC CCA GCC CCC ATC GAG AAA ACC ATC TCC AAA GCC AAA 720 Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys 20 205 GGG CAG CCC CGA GAA CCA CAG GTG TAC ACC CTG CCC CCA TCC CGG GAT 768 Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp 25 220 GAG CTG ACC AAG AAC CAG GTC AGC CTG ACC TGC CTG GTC AAA GGC TTC 816 Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe 235 30 TAT CCC AGC GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG CAG CCG GAG 864 Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu 250 AAC AAC TAC AAG ACC ACG CCT CCC GTG CTG GAC TCC GAC GGC TCC TTC 912 Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe 265 270 TTC CTC TAC AGC AAG CTC ACC GTG GAC AAG AGC AGG TGG CAG CAG GGG 960 40 Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly 280 AAC GTC TTC TCA TGC TCC GTG ATG CAT GAG GCT CTG CAC AAC CAC TAC 1008 Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr 45 295 300 ACG CAG AAG AGC CTC TCC CTG TCT CCG GGT AAA TGAGTGCGG 1050 Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys 310 315 50 (2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 347 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

5	Met -28	Val	Ala	Gly -25	Ser	Asp	Ala	Gly	Arg -20	Ala	Leu	Gly	Val	Leu -15	Ser	Val
	Val	Cys	Leu -10	Leu	His	Cys	Phe	Gly -5	Phe	Ile	Ser	Cys	Phe 1	Ser	Gln	Gln
10	Ile 5	Tyr	Gly	Val	Val	Tyr 10	Gly	Asn	Val	Thr	Phe 15	His	Val	Pro	Ser	Asn 20
15	Val	Pro	Leu	Lys	Glu 25	Val	Leu	Trp	Lys	Lys 30	Gln	Lys	Asp	Lys	Val 35	Ala
••	Glu	Leu	Glu	Asn 40	Ser	Glu	Phe	Arg	Ala 45	Phe	Ser	Ser	Phe	Lys 50	Asn	Arg
20	Val	Tyr	Leu 55	Asp	Thr	Val	Ser	Gly 60	Ser	Leu	Thr	Ile	Tyr 65	Asn	Leu	Thr
	Ser	Ser 70	Asp	Glu	Asp	Glu	Tyr 75	Glu	Met	Glu	Ser	Pro 80	Asn	Ile	Thr	Asp
25	Thr 85	Met	Lys	Phe	Phe	Leu 90	Tyr	Val	Asp	Lys	Thr 95	His	Thr	Cys	Pro	Pro 100
30	Cys	Pro	Ala	Pro	Glu 105	Leu	Leu	Gly	Gly	Pro 110	Ser	Val	Phe	Leu	Phe 115	Pro
50	Pro	Lys	Pro	Lys 120	Asp	Thr	Leu	Met	Ile 125	Ser	Arg	Thr	Pro	Glu 130	Val	Thr
35	Суѕ	V <u>a</u> l	Val 135	<u>Val</u>	Asp	Val	Ser	His 140	Glu	Asp	Pro	Glu	Val 145	Lys	Phe	Asn
	Trp	Tyr 150	Val	Asp	Gly	Val	Glu 155	Val	His	Asn	Ala	Lys 160	Thr	Lys	Pro	Arg
40	Glu 165	Glu	Gln	Tyr	Asn	Ser 170	Thr	Tyr	Arg	Val	Val 175	Ser	Val	Leu	Thr	Val 180
45	Leu	His	Gln	Asp	Trp 185	Leu	Asn	Gly	Lys	Glu 190	Tyr	Lys	Cys	Lys	Val 195	Ser
••	Asn	Lys	Ala	Leu 200	Pro	Ala	Pro	Ile	Glu 205	Lys	Thr	Ile	Ser	Lys 210	Ala	Lys
50	Gly	Gln	Pro 215	Arg	Glu	Pro	Gln	Val 220	Tyr	Thr	Leu	Pro	Pro 225		Arg	Asp
	Glū	Leu 230	Thr	Lys	Asn	Gln	Val 235	Ser	Leu	Thr	Cys	Leu 240	Val	Lys	Gly	Phe
55	Tyr 245	Pro	Ser	Asp	Ile	Ala 250	Val	Glu	Trp	Glu	Ser 255	Asn	Gly	Gln	Pro	Glu 260
	Asn	Asn	Tyr	Lys	Thr 265	Thr	Pro	Pro	Val	Leu 270	Asp	Ser	Asp	Gly	Ser 275	Phe

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly 280 285 290

5 Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr 295 300 305

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys 310 315